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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,895	04/05/2001	Deug-Hyeon Ryu	P56244	3749

7590 09/21/2004

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Washington, DC 20005-1202

EXAMINER
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SHAH, CHIRAG G

ART UNIT	PAPER NUMBER
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2664

DATE MAILED: 09/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/825,895

Applicant(s)

RYU, DEUG-HYEON

Examiner

Chirag G Shah

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 3 is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☒ Claim(s) 2 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 1 rejected under 35 U.S.C. 103(a) as being unpatentable over Warsta et al. (U.S. Patent No. 5,896,369), hereinafter, Warsta in view of Lee (U.S. Patent No. 5,973,640).

Referring to claim 1, Warsta discloses in figure 1 and respective portions of the specification of a radio data communication system including a router 21 and LAN switch 24 connected to an IP network 22, the radio data communication system comprising: a private base station transceiver subsystem (BSS) for exchanging data with a mobile terminal 3; a private IP exchange (MSC 10) for performing switching between mobile terminals; a call manager for managing call (within the BSC in the BSS as in figure 1 and respective portions of the specification); and a private base station controller (BSC in the BSS as disclosed in figure 1 and column 3, lines 55 to column 4, lines 15) providing a mobile subscriber with a complete path and assigning a vocoder in response to a request for an incoming or outgoing call to process the incoming or outgoing call (BSC in the BSS as disclosed in figure 1 and column 3, lines 55 to column 4, lines 15). Warsta further discloses in claims 1 and 14 of using a interconnecting computer in conjunction with a mobile exchange to allow a mobile/remote workstation to be connected over a radio path for extending the connection to a designated data network. In

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addition, Warsta discloses in figure 1 of an Internet interface communicates with the BST under the control of a call manager within the BSC and MSC and transmits packet data from the mobile terminal to the IP network. Warsta, however, fails to explicitly disclose the private base station controller comprising: a high capacity IPC node board assembly; and an Internet interface connected between the high capacity IPC node board assembly and a LAN cable, wherein the Internet interface communicates with the private base station transceiver subsystem under the control of the call manager, transmits packet data received from the mobile terminal to the IP network, monitors installation or uninstallation and function errors of the private IP exchange, and transmits monitoring results to a wire system manager in the call manager through the Ethernet port. Lee teaches of a device for managing status/alarm message of broadcasting system. Lee discloses in figures 3, 4 and in column 3, lines 20 to column 4, lines 59 of a BCP20, a main processor board of a base station transceiver substation 10 of the PCS mobile communication system, receiving the TOD message data, from GPSRs2-1 and 2-2 to perform status management, alarm management, a report function, and a control function. The alarm and status messages are transferred to the CCP 8 belonging to the BSC through status and alarm management block 36. The system time broadcasted by management and broadcasting control block is transferred to all processors 22 in BTS, which can receive the system time data information at any time. Thus, the system time from the TOD message data and broadcast the system time to the respective processor 2 in BTS 10 through the High Capacity IPC Node Board Assembly via CCP belonging to the BSC. Therefore, it would have been obvious to one of ordinary skill in the art to modify the teachings of Warsta to include the teachings of broadcasting the system time to BTS 10 through the a High Capacity IPC Node board via CCP

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belonging to the BSC as taught by Lee in order to easily manage the status and alarm of the GPSR without using the TFCA boards, thus decreasing the hardware complexity by controlling data service in a BSC.

***Allowable Subject Matter***

3. Claim 2 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
4. Claim 3 allowed.

***Conclusion***

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**Or faxed to:**

(703)305-3988, (for formal communications intended for entry)

**Or:**

(703)305-3988 (for informal or draft communications, please label "Proposed" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chirag G Shah whose telephone number is 571-272-3144. The examiner can normally be reached on M-F 8:00 to 4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cgs  
September 16, 2004

  
**Ajit Patel**  
**Primary Examiner**